

Title (en)
FERRITIC STAINLESS STEEL

Title (de)
FERRITISCHER EDELSTAHL

Title (fr)
ACIER INOXYDABLE FERRITIQUE

Publication
EP 2787097 A1 20141008 (EN)

Application
EP 12853515 A 20121128

Priority
• JP 2011261094 A 20111130
• JP 2012007614 W 20121128

Abstract (en)
The invention provides ferritic stainless steels exhibiting good weldability and excellent corrosion resistance even under such welding conditions that sensitization is induced. The ferritic stainless steel includes, by mass%, C: 0.001 to 0.030%, Si: more than 0.3 to 0.55%, Mn: 0.05 to 0.50%, P: not more than 0.05%, S: not more than 0.01%, Cr: 19.0 to 28.0%, Ni: 0.01 to less than 0.30%, Mo: 0.2 to 3.0%, Al: more than 0.08 to 1.2%, V: 0.02 to 0.50%, Cu: less than 0.1%, Nb: 0.005 to 0.50%, Ti: 0.05 to 0.50%, and N: 0.001 to 0.030%, the balance being Fe and inevitable impurities, the ferritic stainless steel satisfying Equations (1) and (2).

IPC 8 full level
C22C 38/00 (2006.01); **C21D 9/46** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP US)
C21D 9/46 (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/004** (2013.01 - EP US); **C22C 38/005** (2013.01 - US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/52** (2013.01 - US); **C22C 38/54** (2013.01 - US); **C21D 2211/005** (2013.01 - EP US)

Cited by
EP3318653A4; US10975459B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2787097 A1 20141008; **EP 2787097 A4 20151021**; **EP 2787097 B1 20180110**; CN 103958717 A 20140730; CN 103958717 B 20160518; ES 2657023 T3 20180301; JP 5387802 B1 20140115; JP WO2013080526 A1 20150427; KR 101669740 B1 20161027; KR 20140091744 A 20140722; TW 201339324 A 20131001; TW I496899 B 20150821; US 2014308154 A1 20141016; US 9487849 B2 20161108; WO 2013080526 A1 20130606

DOCDB simple family (application)
EP 12853515 A 20121128; CN 201280059099 A 20121128; ES 12853515 T 20121128; JP 2012007614 W 20121128; JP 2013523396 A 20121128; KR 20147015802 A 20121128; TW 101145044 A 20121130; US 201214360192 A 20121128